

Application No.: 10/552,662

AMENDMENT TO THE SPECIFICATION

Please amend the paragraph beginning on page 24, line 5 as follows:

The charging/discharging circuit ~~[[19]]~~ 20 is composed of a two-way switch and a capacitor which are interconnected in series between the output terminals of the rectifier circuit

2. The two-way switch serves as a charging switch and discharging switch. The charging/discharging circuit control unit 19 includes a torque command on/off determination unit 21, an a.c. current command preparation unit 22, a charging switch command preparation unit 23 and a discharging switch command preparation unit 24.

Please amend the paragraph beginning on page 21, line 21 as follows:

[~~Forth~~ Fourth Embodiment]

Please amend the paragraph beginning on page 24, line 22 as follows:

The a.c. current command preparation unit 22 detects the voltage phase of the a.c. power source 1 through the voltage sensor 103 and prepares an a.c. current command I_{ac}^* based on the result of the determination made by the torque command on/off determination unit 21. During the period that it is judged in the above determination that the present current amplitude command value is smaller than the average current amplitude command value (hereinafter referred to as "the period 1"), the a.c. current command I_{ac}^* is prepared based on the voltage phase of the a.c. power source 1. During the period that the present current amplitude command value is determined to be larger than the average current amplitude command value (hereinafter referred to as "the period 2"), outputting of the a.c. current command I_{ac}^* is stopped. During the period 1, since the value of the voltage applied to the brushless motor 4 by the inverter circuit 3

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is small, the motor current is small. Therefore, most of the current incoming from the a.c. power source 1 (hereinafter referred to as "a.c. power source current") is used for charging the capacitor of the charging/discharging circuit 20.